

CLAIMS

What is claimed is:

1. A method for controlling at least one remote device over a communication system, comprising:
  - 5 monitoring a communication system for activity;
  - detecting whether activity on the communication system enables reception of at least one incoming instruction;
  - storing said incoming instructions when activity on the communication system enables reception of incoming
  - 10 instructions; and
  - transmitting said incoming instructions to said device.
2. The method of claim 1, further comprising:
  - 15 receiving at least one tone or pulse over said communication system; and
  - translating said tones or pulses into said instructions.
- 20 3. The method according to claim 1, further comprising:
  - analyzing position of said tones or pulses; and
  - translating said tones or pulses and position information into instructions.

4. A method for controlling at least one remote  
device over a communication system, comprising:  
monitoring a communication system for activity;  
detecting whether the communication system is off  
5 hook;  
determining whether an incoming call is made when the  
system is off hook;  
detecting whether activity on the communication system  
enables reception of at least one incoming instruction;  
10 determining whether a call is established to access  
the remote device;  
storing said incoming instructions when activity on  
the communication system enables reception of incoming  
instructions;  
15 transmitting said incoming instructions to said  
device; and  
controlling said device based on said instructions.

5. The method of claim 4, further comprising:  
20 receiving at least one tone or pulse over said  
communication system; and  
translating said tones or pulses into said  
instructions.

6. The method according to claim 4, further comprising:  
analyzing position of said tones or pulses; and  
translating said tones or pulses and position  
information into instructions.

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7. The method according to claim 5 wherein the tones  
or pulses are transmitted by a central server of a  
telecommunication system.

10 8. The method according to claim 5 wherein the tones  
or pulses are transmitted by an internet central server.

15 9. The method of claim 5, further comprising:  
converting said tones or pulses into infrared  
light containing said incoming instructions.

10. The method of claim 5, further comprising:  
converting said tones or pulses into audio data  
containing said incoming instructions.

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11. The method of claim 5, further comprising:  
converting said tones or pulses into electrical  
pulses containing said incoming instructions.

12. A system for controlling at least one remote device over a communication system, comprising:

means for monitoring a communication system for activity;

5 means for detecting whether activity on the communication system enables reception of at least one incoming instruction;

means for storing said incoming instructions when activity on the communication system enables reception of  
10 incoming instructions; and

means for transmitting said incoming instructions to said device.

13. The system of claim 12, further comprising:

15 means for receiving at least one tone or pulse over said communication system; and

means for translating said tones or pulses into said instructions.

20 14. The system according to claim 12, further comprising:

means for analyzing position of said tones or pulses; and

means for translating said tones or pulses and position information into instructions.

15. A system for controlling at least one remote device over a communication system, comprising:

means for monitoring a communication system for activity;

means for detecting whether the communication system is off hook;

means for determining whether an incoming call is made when the system is off hook;

means for detecting whether activity on the communication system enables reception of at least one incoming instruction;

means for determining whether a call is established to access the remote device;

means for storing said incoming instructions when activity on the communication system enables reception of incoming instructions;

means for transmitting said incoming instructions to said device; and

means for controlling said device based on said instructions.

16. The system of claim 15, further comprising:

means for receiving at least one tone or pulse over  
said communication system; and

means for translating said tones or pulses into said  
instructions.

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17. The system according to claim 15, further comprising:  
means for analyzing position of said tones or pulses;  
and

means for translating said tones or pulses and  
10 position information into instructions.

18. The system according to claim 16, wherein the  
tones or pulses are transmitted by a central server of a  
telecommunication system.

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19. The system according to claim 16, wherein the  
tones or pulses are transmitted by an internet central  
server.

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20. The system of claim 16, further comprising:  
means for converting said tones or pulses into  
infrared light containing said incoming instructions.

21. The system of claim 16, further comprising:

means for converting said tones or pulses into  
audio data containing said incoming instructions.

22. The system of claim 16, further comprising:

5 means for converting said tones or pulses into  
electrical pulses containing said incoming instructions.

23. A system for controlling at least one remote  
device over a communication system, comprising:

10 a processor configured for monitoring a communication  
system for activity, for detecting whether activity on the  
communication system enables reception of at least one  
incoming instruction

a memory for storing said incoming instructions when  
15 activity on the communication system enables reception of  
incoming instructions; and

a transmitter configured for transmitting said  
incoming instructions to said device.

20 24. The system of claim 23, further comprising:

a decoder configured for translating tones or pulses  
into said instructions.

25. The system according to claim 23, wherein the processor is further configured for analyzing position of said tones or pulses; and

the decoder is further configured for translating said  
5 tones or pulses and position information into instructions.

26. A system for controlling at least one remote device over a communication system, comprising:

a processor configured for monitoring a communication  
10 system for activity, for detecting whether the communication system is off hook, for determining whether an incoming call is made when the system is off hook, for detecting whether activity on the communication system enables reception of at least one incoming instruction, for  
15 determining whether a call is established to access the remote device;

a memory configured for storing said incoming instructions when activity on the communication system enables reception of incoming instructions; and

20 a transmitter configured for transmitting said incoming instructions to said device.

27. The system of claim 26, further comprising:



a decoder configured for translating tones or pulses  
into said instructions.

The system according to claim 26, wherein the  
processor is further configured for analyzing position  
of said tones or pulses; and  
said decoder is further configured for translating  
said tones or pulses and position information into  
instructions.

28. The system according to claim 27, wherein the  
tones or pulses are transmitted by a central server of a  
telecommunication system.

29. The system according to claim 27, wherein the  
tones or pulses are transmitted by an internet central  
server.

30. The system of claim 27, wherein the transmitter  
is further configured for converting said tones or pulses  
into infrared light containing said incoming instructions.

31. The system of claim 27, wherein the transmitter is further configured for converting said tones or pulses into audio data containing said incoming instructions.

5 32. The system of claim 27, wherein the transmitter is further configured for converting said tones or pulses into electrical pulses containing said incoming instructions.

10 33. Computer executable software code stored on a computer readable medium , the code for controlling at least one remote device over a communication system, comprising:

code for monitoring a communication system for  
15 activity;

code for detecting whether activity on the communication system enables reception of at least one incoming instruction;

code for storing said incoming instructions when  
20 activity on the communication system enables reception of incoming instructions; and

code for transmitting said incoming instructions to said device.

34. Computer executable software code stored on a computer readable medium , the code for controlling at least one remote device over a communication system, comprising:

- 5       code for monitoring a communication system for activity;
- code for detecting whether the communication system is off hook;
- code for determining whether an incoming call is made
- 10   when the system is off hook;
- code for detecting whether activity on the communication system enables reception of at least one incoming instruction;
- code for determining whether a call is established to
- 15   access the remote device;
- code for storing said incoming instructions when activity on the communication system enables reception of incoming instructions;
- code for transmitting said incoming instructions to
- 20   said device; and
- code for controlling said device based on said instructions.

35. A computer readable medium having computer executable software code stored thereon, the code for controlling at least one remote device over a communication system, comprising:

- 5       code for monitoring a communication system for activity;
- code for detecting whether activity on the communication system enables reception of at least one incoming instruction;
- 10       code for storing said incoming instructions when activity on the communication system enables reception of incoming instructions; and
- code for transmitting said incoming instructions to said device.

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36. A computer readable medium having computer executable software code stored thereon, the code for controlling at least one remote device over a communication system, comprising:

- 20       code for monitoring a communication system for activity;
- code for detecting whether the communication system is off hook;

code for determining whether an incoming call is made  
when the system is off hook;

code for detecting whether activity on the  
communication system enables reception of at least one  
5 incoming instruction;

code for determining whether a call is established to  
access the remote device;

code for storing said incoming instructions when  
activity on the communication system enables reception of  
10 incoming instructions;

code for transmitting said incoming instructions to  
said device; and

code for controlling said device based on said  
instructions.  
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37. A programmed computer for controlling at least  
one remote device over a communication system, comprising:

a memory having at least one region for storing  
computer executable program code; and

20 a processor for executing the program code stored in  
memory, wherein the program code includes:

code for monitoring a communication system for  
activity;

code for detecting whether activity on the  
communication system enables reception of at least one  
incoming instruction;

code for storing said incoming instructions when  
5 activity on the communication system enables reception of  
incoming instructions; and

code for transmitting said incoming instructions to  
said device.

10 38. A programmed computer for controlling at least  
one remote device over a communication system, comprising:

a memory having at least one region for storing  
computer executable program code; and

a processor for executing the program code stored in  
15 memory, wherein the program code includes:

code for monitoring a communication system for  
activity;

code for detecting whether the communication system is  
off hook;

20 code for determining whether an incoming call is made  
when the system is off hook;

code for detecting whether activity on the  
communication system enables reception of at least one  
incoming instruction;

code for determining whether a call is established to  
access the remote device;

code for storing said incoming instructions when  
activity on the communication system enables reception of  
5 incoming instructions;

code for transmitting said incoming instructions to  
said device; and

code for controlling said device based on said  
instructions.

10 39. A method for controlling at least one remote  
device over a communication system, comprising:

monitoring a communication system for activity;

15 detecting whether an outgoing discount call is being  
made;

detecting whether activity on the communication system  
enables reception of at least one incoming instruction;

storing said incoming instructions when activity on  
the communication system enables reception of incoming

20 instructions; and

transmitting said incoming instructions to said  
device.

40. A method for controlling at least one remote device over a communication system, comprising:

monitoring a communication system for activity;  
detecting whether the communication system is off  
hook;

determining whether an incoming call is made when the system is off hook;

detecting whether an outgoing discount call is being made;

detecting whether activity on the communication system enables reception of at least one incoming instruction;

determining whether a call is established to access the remote device;

storing said incoming instructions when activity on the communication system enables reception of incoming instructions;

transmitting said incoming instructions to said device; and

controlling said device based on said instructions.

41. A system for controlling at least one remote device over a communication system, comprising:

means for monitoring a communication system for activity;



means for detecting whether an outgoing discount call  
is being made;

means for detecting whether activity on the  
communication system enables reception of at least one  
5 incoming instruction;

means for storing said incoming instructions when  
activity on the communication system enables reception of  
incoming instructions; and

means for transmitting said incoming instructions to  
10 said device.

42. A system for controlling at least one remote  
device over a communication system, comprising:

means for monitoring a communication system for  
15 activity;

means for detecting whether the communication system  
is off hook;

means for determining whether an incoming call is made  
when the system is off hook;

20 means for detecting whether an outgoing discount call  
is being made;

means for detecting whether activity on the  
communication system enables reception of at least one  
incoming instruction;

means for determining whether a call is established to  
access the remote device;

means for storing said incoming instructions when  
activity on the communication system enables reception of  
5 incoming instructions;

means for transmitting said incoming instructions to  
said device; and

means for controlling said device based on said  
instructions.

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43. A system for controlling at least one remote  
device over a communication system, comprising:

a processor configured for monitoring a communication  
system for activity, for detecting whether an outgoing  
15 discount call is being made, for detecting whether activity  
on the communication system enables reception of at least  
one incoming instruction

a memory for storing said incoming instructions when  
activity on the communication system enables reception of  
20 incoming instructions; and

a transmitter configured for transmitting said  
incoming instructions to said device.

44. A system for controlling at least one remote device over a communication system, comprising:

a processor configured for monitoring a communication system for activity, for detecting whether the communication system is off hook, for determining whether an incoming call is made when the system is off hook, for detecting whether an outgoing discount call is being made, for detecting whether activity on the communication system enables reception of at least one incoming instruction, for determining whether a call is established to access the remote device;

a memory configured for storing said incoming instructions when activity on the communication system enables reception of incoming instructions; and

a transmitter configured for transmitting said incoming instructions to said device.

45. The system of claim 27, wherein the transmitter is further configured for converting said tones or pulses into electrical pulses containing said incoming instructions.

46. Computer executable software code stored on a computer readable medium , the code for controlling at

least one remote device over a communication system,  
comprising:

code for monitoring a communication system for  
activity;

5 code for detecting whether an outgoing discount call  
is being made;

code for detecting whether activity on the  
communication system enables reception of at least one  
incoming instruction;

10 code for storing said incoming instructions when  
activity on the communication system enables reception of  
incoming instructions; and

code for transmitting said incoming instructions to  
said device.

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47. Computer executable software code stored on a  
computer readable medium , the code for controlling at  
least one remote device over a communication system,  
comprising:

20 code for monitoring a communication system for  
activity;

code for detecting whether the communication system is  
off hook;

code for determining whether an incoming call is made  
when the system is off hook;

code for detecting whether an outgoing discount call  
is being made;

5 code for detecting whether activity on the  
communication system enables reception of at least one  
incoming instruction;

code for determining whether a call is established to  
access the remote device;

10 code for storing said incoming instructions when  
activity on the communication system enables reception of  
incoming instructions;

code for transmitting said incoming instructions to  
said device; and

15 code for controlling said device based on said  
instructions.

48. A computer readable medium having computer  
executable software code stored thereon, the code for  
20 controlling at least one remote device over a communication  
system, comprising:

code for monitoring a communication system for  
activity;

code for detecting whether an outgoing discount call  
is being made;

code for detecting whether activity on the  
communication system enables reception of at least one

5 incoming instruction;

code for storing said incoming instructions when  
activity on the communication system enables reception of  
incoming instructions; and

10 code for transmitting said incoming instructions to  
said device.

49. A computer readable medium having computer  
executable software code stored thereon, the code for  
controlling at least one remote device over a communication  
15 system, comprising:

code for monitoring a communication system for  
activity;

code for detecting whether the communication system is  
off hook;

20 code for determining whether an incoming call is made  
when the system is off hook;

code for detecting whether an outgoing discount call  
is being made;

code for detecting whether activity on the  
communication system enables reception of at least one  
incoming instruction;

code for determining whether a call is established to  
5 access the remote device;

code for storing said incoming instructions when  
activity on the communication system enables reception of  
incoming instructions;

code for transmitting said incoming instructions to  
10 said device; and

code for controlling said device based on said  
instructions.

50. A programmed computer for controlling at least  
15 one remote device over a communication system, comprising:

a memory having at least one region for storing  
computer executable program code; and

a processor for executing the program code stored in  
memory, wherein the program code includes:

20 code for monitoring a communication system for  
activity;

code for detecting whether an outgoing discount call  
is being made;

code for detecting whether activity on the  
communication system enables reception of at least one  
incoming instruction;

code for storing said incoming instructions when  
5 activity on the communication system enables reception of  
incoming instructions; and

code for transmitting said incoming instructions to  
said device.

10 51. A programmed computer for controlling at least  
one remote device over a communication system, comprising:

a memory having at least one region for storing  
computer executable program code; and

a processor for executing the program code stored in  
15 memory, wherein the program code includes:

code for monitoring a communication system for  
activity;

code for detecting whether the communication system is  
off hook;

20 code for determining whether an incoming call is made  
when the system is off hook;

code for detecting whether an outgoing discount call  
is being made;



code for detecting whether activity on the  
communication system enables reception of at least one  
incoming instruction;

code for determining whether a call is established to  
5 access the remote device;

code for storing said incoming instructions when  
activity on the communication system enables reception of  
incoming instructions;

code for transmitting said incoming instructions to  
10 said device; and

code for controlling said device based on said  
instructions.